

## WHAT IS CLAIMED IS:

1. A cable support structure for supporting a cable arranged between a first member and a second member which relatively move along a predetermined moving direction, comprising:

5 a cable guide, formed by a plurality of linearly connected link members, for guiding said cable;

a first support member, provided on said first member side, for supporting one end portion of said cable guide; and

a second support member, provided on said second member side, for supporting  
10 another end portion of said cable guide, wherein

at least one of said first support member and said second support member supports said one end portion or said another end portion of said cable guide in a state capable of swinging it in a vertical direction approximately perpendicular to said predetermined moving direction.

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2. The cable support structure according to claim 1, wherein

said first member is a main body of a vehicle, and said second member is a slide door.

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3. The cable support structure according to claim 2, wherein

both said first support member and said second support member support said one end portion and said another end portion of said cable guide in said state capable of swinging them in the vertical direction, respectively.

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4. The cable support structure according to claim 3, wherein

said first support member includes:

a first fixation member, fixed to said first member side, for supporting said one end portion of said cable guide; and

a first connection member interposed between said one end portion of said cable guide and said first fixation member, and

said first fixation member axially supports said first connection member connected to said one end portion of said cable guide so as to freely rotate around an axis corresponding to said vertical direction.

10           5. The cable support structure according to claim 3, wherein

said second support member includes:

a second fixation member, fixed to said second member side, for supporting said another end portion of said cable guide; and

a second connection member interposed between said another end portion of said cable guide and said second fixation member, and

said second fixation member axially supports said second connection member connected to said another end portion of said cable guide so as to freely rotate around an axis corresponding to said vertical direction.